

# **Bacterial Contamination of Animal Feeds and the Human Health Consequences**

January 23, 2004  
8:30 a.m. – 5:15 p.m.  
Centers for Disease Control and Prevention  
Building 1, Auditorium B  
1600 Clifton Road, NE  
Atlanta, GA 30333

\*Security Note: All Pre-registered participants should report to CDC Building 1 (across the street from the Emory Inn by 8:15. Name tags will be available at the front desk for pre-registered participants. Non-registered participants must proceed to the CDC Visitor's Center and should allow 45 minutes to check in for security reasons.

8:30-8:45     **Introductions**     Fred Angulo

## **Session: European Experiences (Moderator: Fred Angulo)**

8:45-9:15     Integrated control strategy for *Salmonella*-  
the role of animal feed in Sweden     Per Häggblom

9:15-9:45     Surveillance and control of *Salmonella*  
in feedingstuffs in Norway     Knut Flatlandsmo

9:45-10:00     **Break**

## **Session: U.S. Government Research (Moderator: Dawn Norton)**

10:00-10:20     Overview of USDA-ARS-funded research     Charlene Jackson

10:20-10:40     Overview of USDA-NAHMS research     Nora Wineland

10:40-11:00     Overview of NIH-NIAID research     Leigh Sawyer

11:00-11:15     **Break**

## **Plenary Session (Moderator: Vrinda Nargund)**

11:15-11:45     Summary of microbiological data from  
the FDA Feed Commodity Survey (2002-2003)     David Wagner

11:45-12:15     Sources and impacts of microbial  
contamination of cattle feedstuffs     Tom Besser

12:15-1:30     **Lunch**

## **Short Scientific Presentations I (Moderator: Dawn Norton)**

1:30-1:45     Selected foodborne and other pathogens  
in the immediate products of rendering     Fred Troutt

1:45-2:00	A survey of <i>Salmonella</i> serovars and most probable numbers (MPNs) in rendered animal protein meals: inferences for animal and human health	Don Franco
2:00-2:15	Prevalence of E. coli O157 in feedlot cattle rations	Mike Sanderson
2:15-2:30	Feed production management, complexities, or alternative considerations	Gregg Sherwood
2:30-2:45	<b>Break</b>	

#### **Short Scientific Presentations II (Moderator: Vrinda Nargund)**

2:45-3:00	Development and implementation of a voluntary HACCP program in the feed industry: Characterization of biological hazards	Tim Herrman
3:00-3:15	Foodborne pathogens and the animal feed supply: A food systems challenge requiring an interdisciplinary approach	Will Hueston
3:15-3:30	The importance of feed in the epidemiology of <i>Salmonella</i> in swine production	Peter Davies
3:30-3:45	Pre-harvest Pathogen Reduction – A Multiple Intervention Approach	Jeff Murphy
3:45-4:00	An overview of Salmonella serotypes in livestock feeds in Canada	Reem Barakat
4:00-4:15	<b>Break</b>	

#### **Session: Perspectives (Moderator: Tom Chiller)**

4:15-4:30	CDC Perspective	Dawn Norton
4:30-4:45	Feed Industry Perspective	Ross Hamilton
4:45-5:00	Consumer Perspective	Richard Wood
5:00-5:15	FDA/CVM Concerns About the Presence of <i>Salmonella</i> in Feeds	George Graber
5:15	<b>End of Workshop</b>	

## Speakers Affiliations

Reem Barakat (Ontario, Canada)  
Canadian Food Inspection Agency  
Feed Section

Tom Besser (Pullman, WA)  
Washington State University  
Department of Veterinary Clinical Science

Peter Davies (St. Paul, MN)  
University of Minnesota  
Department of Clinical and Population Sciences

Knut Flatlandsmo (Norway)  
Norwegian Agriculture Inspection

Don Franco – (Florida)  
Center for Biosecurity  
Food Safety and Public Health

George Graber (Rockville, MD)  
FDA - Center for Veterinary Medicine  
Division of Animal Feeds

Per Häggblom (Sweden)  
National Veterinary Institute  
Department of Feed Control

Ross Hamilton (Irving, TX)  
Darling International, Inc.  
Government Affairs and Technology

Tim Herrman (Manhattan, KS)  
Kansas State University  
Grain Science and Industry Department

Will Hueston (St. Paul, MN)  
University of Minnesota  
Center for Animal Health and Food Safety

Charlene Jackson, PhD (Athens, GA)  
USDA - Agricultural Research Service  
Antimicrobial Resistance Research Unit

Jeff Murphy (Des Moines, IA)  
Kemin Americas, Inc.  
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Dawn Norton (Atlanta, GA)  
Centers for Disease Control and Prevention  
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Mike Sanderson (Manhattan, KS)  
Kansas State University  
Department of Clinical Sciences

Leigh Sawyer (Bethesda, MD)  
National Institutes of Health  
National Institute of Allergy and Infectious Diseases

Gregg Sherwood (Aurora, NE)  
Aurora Cooperative Elevator Company  
Feed Division

Fred Troutt (Urbana, IL)  
University of Illinois  
Department of Clinical Veterinary Medicine

David Wagner (Laurel, MD)  
FDA/CVM - Division of Animal and Food Microbiology  
Office of Research

Nora Wineland (Ft. Collins, CO)  
USDA-APHIS-VS- Center for National Animal Health Surveillance  
Centers for Epidemiology and Animal Health

Richard Wood (Chicago, IL)  
Food Animal Concerns Trust